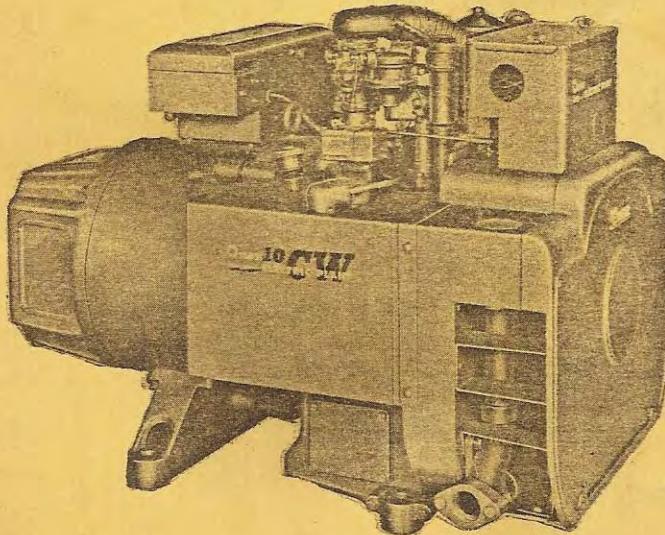


PARTS CATALOG

FOR

ONAN ELECTRIC GENERATING PLANTS

CW Series



Alternating Current
and
Magnet Generators

A-E

D. W. ONAN & SONS INC. • MINNEAPOLIS 14, MINN.

920-14 ▲▲▲▲▲▲

Price \$1.00

Printed in U.S.A.

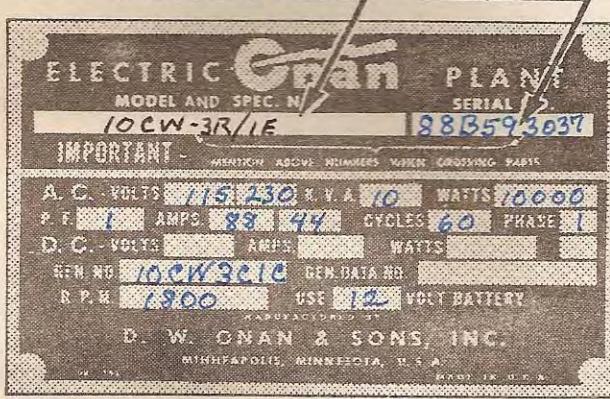
INSTRUCTIONS FOR ORDERING REPAIR PARTS

FOR PARTS OR SERVICE, CONTACT THE DEALER FROM WHOM YOU PURCHASED THIS EQUIPMENT OR REFER TO YOUR NEAREST AUTHORIZED SERVICE STATION.

TO AVOID ERRORS OR DELAY IN FILLING YOUR PARTS ORDER, PLEASE FURNISH ALL INFORMATION REQUESTED.

REFER TO THE NAMEPLATE ON YOUR PLANT

1. Always give the MODEL & SPEC. NO. and SERIAL NO.



For handy reference, copy YOUR plant nameplate information in the spaces above.

2. Do not order by reference number or group number, use part number and description.
3. Give the part number, description and quantity needed of each item. If an old part cannot be identified, return the part prepaid to your dealer or nearest AUTHORIZED SERVICE STATION. Print your name and address plainly on the package. Write a letter to the same address stating the reason for returning the part.
4. State definite shipping instructions.

Any claim for loss or damage to your unit in transit should be filed promptly against the transportation company making the delivery. Shipments are complete unless the packing list indicates items are back ordered.

"Prices are purposely omitted from this Parts Catalog due to the confusion resulting from fluctuating costs, import duties, sales taxes, exchange rates, etc.

For Current parts prices, consult your Onan Dealer, Distributor or Parts and Service Center."

"En esta lista de partes los precios se omiten de propósito, ya que bastante confusión resultó de fluctuaciones de los precios, derechos aduanales, impuestos de venta, cambios extranjeros etc.

Consiga los precios vigentes de su distribuidor de productos "ONAN".

CW SERIES

PARTS CATALOG

Use this parts catalog as a general guide in selecting parts. Parts are arranged in groups of related items. Some groups of optional equipment are included. Each illustrated part is identified by a reference number corresponding to the same reference number in the Parts List for the group. Parts illustrations represent typical items and do not necessarily portray a particular part number.

Compare your plant nameplate MODEL and SPEC. NO. with the Plant Data Table. Select the Parts Key No. (1, 2, etc. in the last column) that applies to your plant Model and Spec. No. This Parts Key No. appears in the Description of parts that differ between basic models. Some parts Descriptions refer to Spec A, B, etc. This refers to the LETTER at the end of the plant MODEL and SPEC. NO. as shown on the plant nameplate. This Spec. LETTER advances (A to B, B to C, etc.) with manufacturing changes. Thus when reference is made in a part description to "Parts Key No. 4" or to "Begin Spec. E" that part is not used on all plants.

Right and left sides are identified by FACING the engine end of the complete plant.

PLANT DATA TABLE

3

MODEL & SPEC. NO.	ELECTRICAL DATA					PARTS KEY NO.
	WATTS	VOLTS	CYCLES	PHASE	WIRES	
5CW-1M/*	5000	115	60	1	2	1
5CW-2M/	5000	230	60	1	2	1
5CW-3M/	5000	115/230	60	1	3	1
5CW-4M/	5000	120/208	60	3	4	1
5CW-5M/	5000	230	60	3	3	1
5CW-1R/	5000	115	60	1	2	2
5CW-2R/	5000	230	60	1	2	2
5CW-3R/	5000	115/230	60	1	3	2
5CW-4R/	5000	120/208	60	3	4	2
5CW-5R/	5000	230	60	3	3	2
5CW-6R/	5000	460	60	3	3	2
5CW-7R/	5000	220/380	60	3	4	2
5CW-8R/	5000	127/220	60	3	4	2
5CW-53M/	5000	115/230	50	1	3	1
5CW-54M/	5000	120/208	50	3	4	1
5CW-57M/	5000	220/380	50	3	4	1
5CW-53R/	5000	115/230	50	1	3	2
5CW-54R/	5000	120/208	50	3	4	2
5CW-55R/	5000	230	50	3	3	2
5CW-57R/	5000	220/380	50	3	4	2
6CW-53R/	6250	115/230	50	1	3	4
6CW-54R/	6250	120/208	50	3	4	4
6CW-55R/	6250	230	50	3	3	4
6CW-57R/	6250	220/380	50	3	4	4
705CW-1R/	7500	115	60	1	2	4
705CW-2R/	7500	230	60	1	2	4
705CW-3R/	7500	115/230	60	1	3	4
705CW-3R17/	7500	115/230	60	1	3	4
705CW-4R/	7500	120/208	60	3	4	4
705CW-5R/	7500	230	60	3	3	4
705CW-6R/	7500	460	60	3	3	4
705CW-7R/	7500	220/380	60	3	4	4
8CW-3R/	8000	115/230	50	1	3	4
8CW-4R/	8000	120/208	50	3	4	4
8CW-53M/	8000	115/230	50	1	3	3
8CW-54M/	8000	120/208	50	3	4	3
8CW-55M/	8000	230	50	3	3	3
8CW-56M/	8000	460	50	3	3	3
8CW-57M/	8000	220/380	50	3	4	3
8CW-53R/	8000	115/230	50	1	3	4
8CW-54R/	8000	120/208	50	3	4	4
8CW-55R/	8000	230	50	3	3	4
8CW-56R/	8000	460	50	3	3	4
8CW-57R/	8000	220/380	50	3	4	4
9CW-3R/	9000	115/230	60	1	3	4
9CW-4R/	9000	120/208	60	3	4	4
10CW-3M/	10000	115/230	60	1	3	3
10CW-4M/	10000	120/208	60	3	4	3
10CW-5M/	10000	230	60	3	3	3
10CW-6M/	10000	460	60	3	3	3
10CW-3R/	10000	115/230	60	1	3	4
10CW-4R/	10000	120/208	60	3	4	4
10CW-5R/	10000	230	60	3	3	4
10CW-6R/	10000	460	60	3	3	4
10CW-7R/	10000	220/380	60	3	4	4
10CW-8R/	10000	127/220	60	3	4	4
10CW-150R/	10000	250	DC		2	5

* - The number after the diagonal line signifies standard or optional features. The LETTER ending the model and spec. no. advances with manufacturing changes.

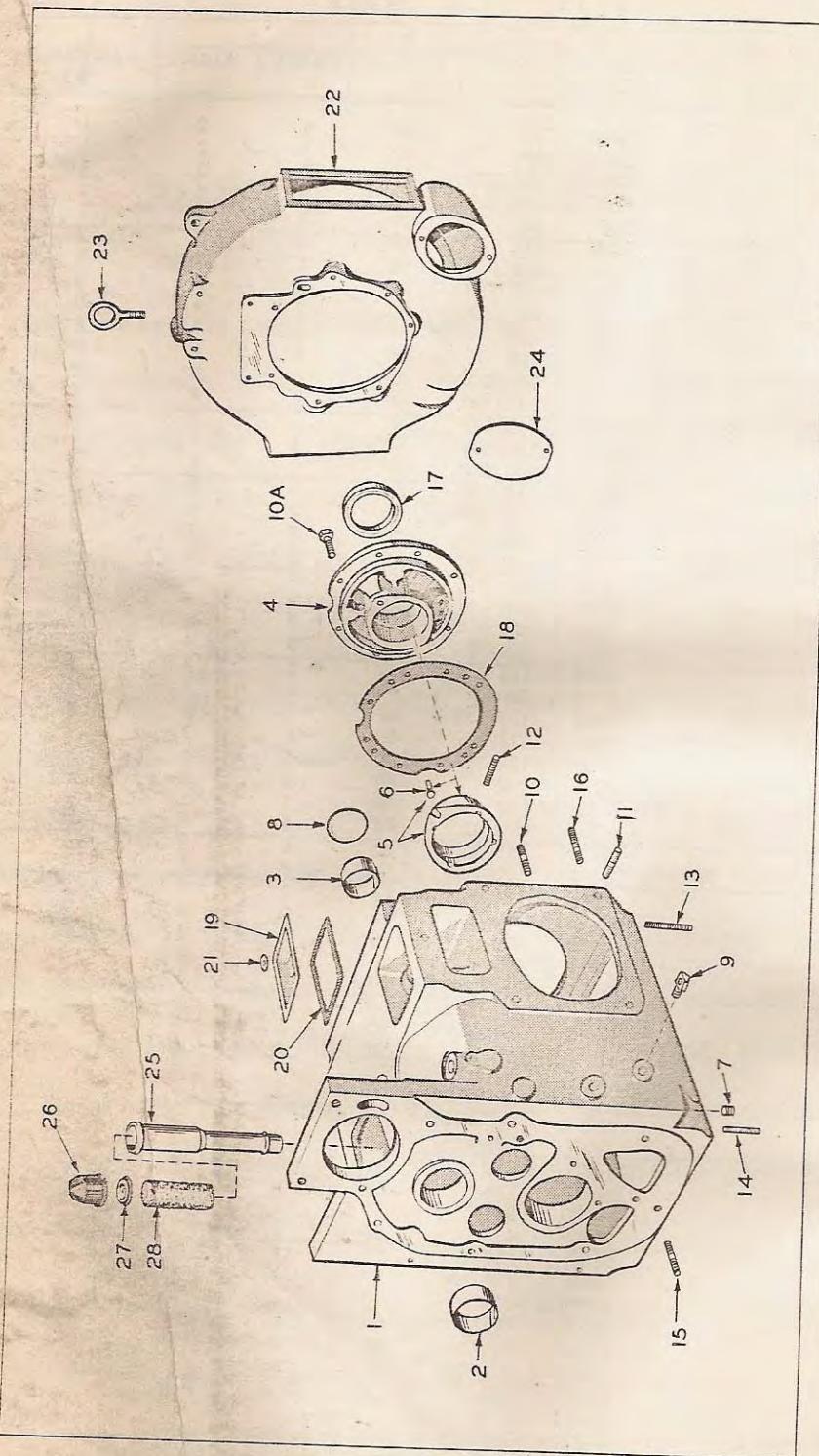


FIG. 1 CRANKCASE GROUP
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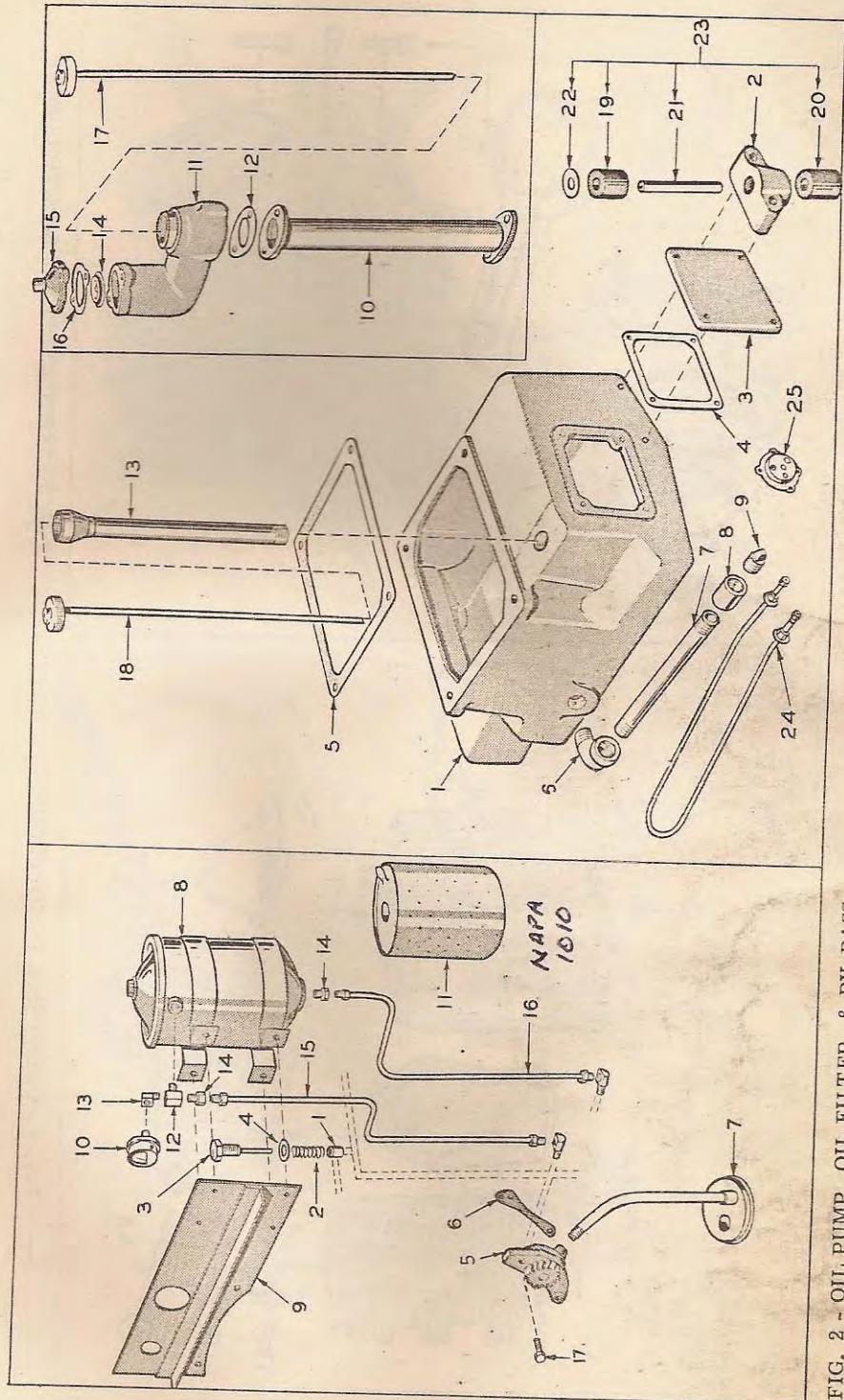


FIG. 3 - OIL BASE GROUP

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FIG. 2 - OIL PUMP, OIL FILTER, & BY-PASS
GROUP

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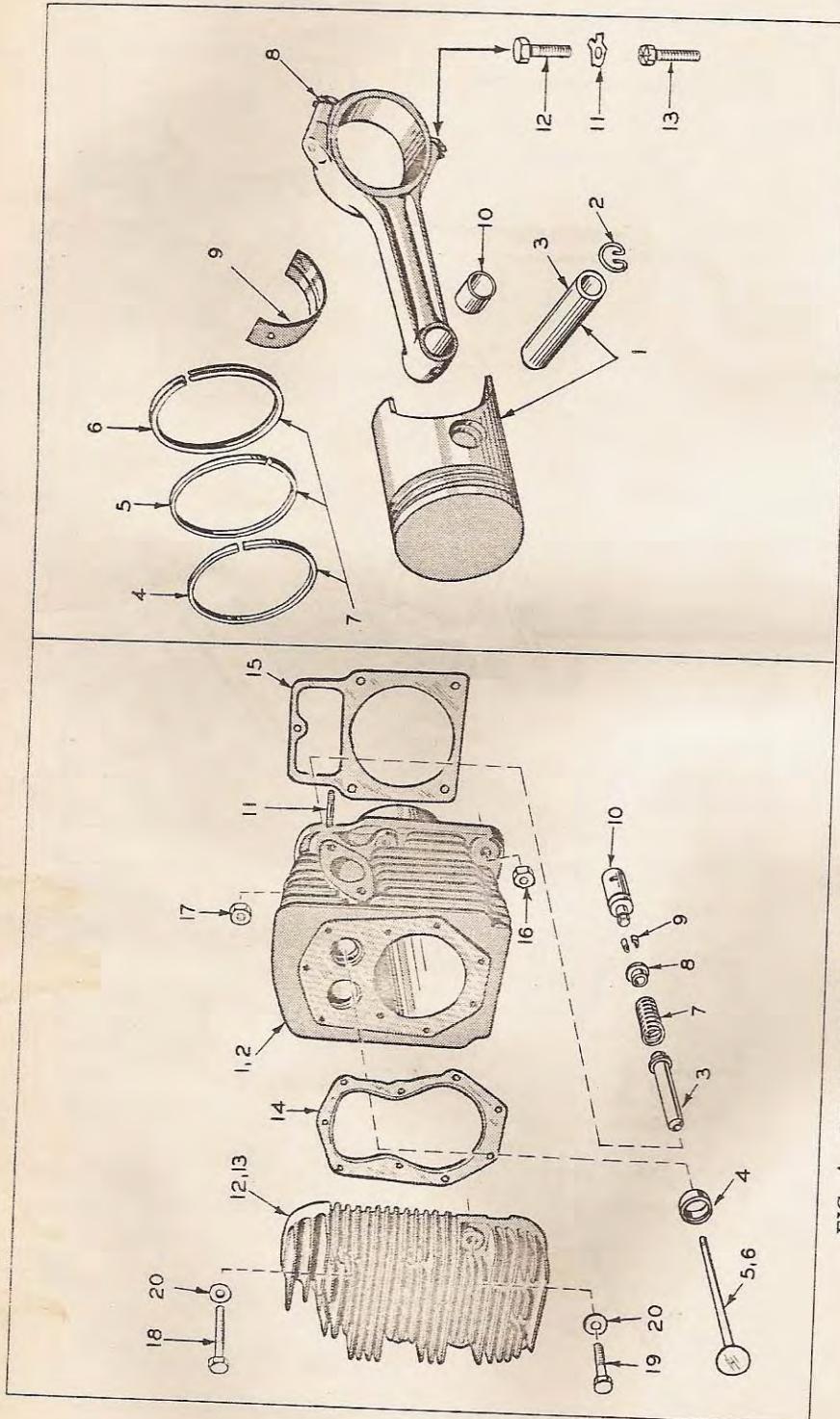


FIG. 4 - CYLINDER & VALVE GROUP

FIG. 5 - CONNECTING ROD & PISTON GROUP

FIG. 7 - FLYWHEEL & BLOWER WHEEL GROUP

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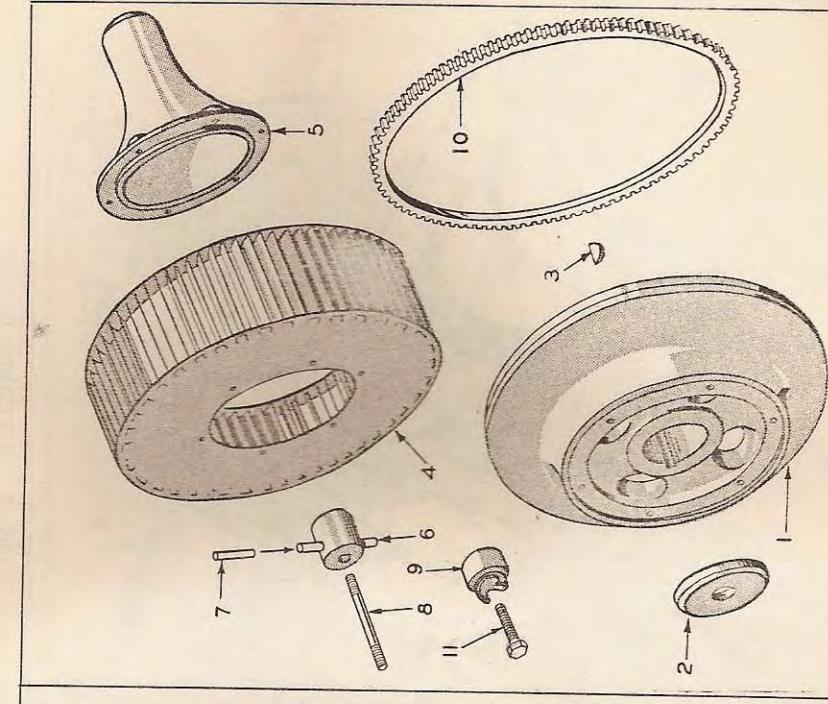
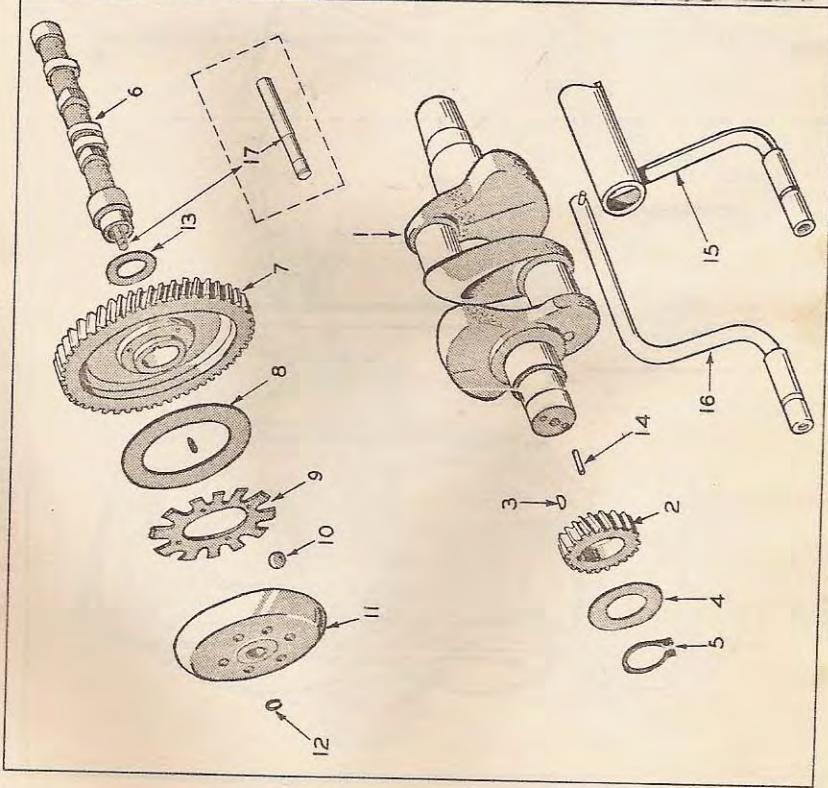


FIG. 6 - CRANKSHAFT & CAMSHAFT GROUP

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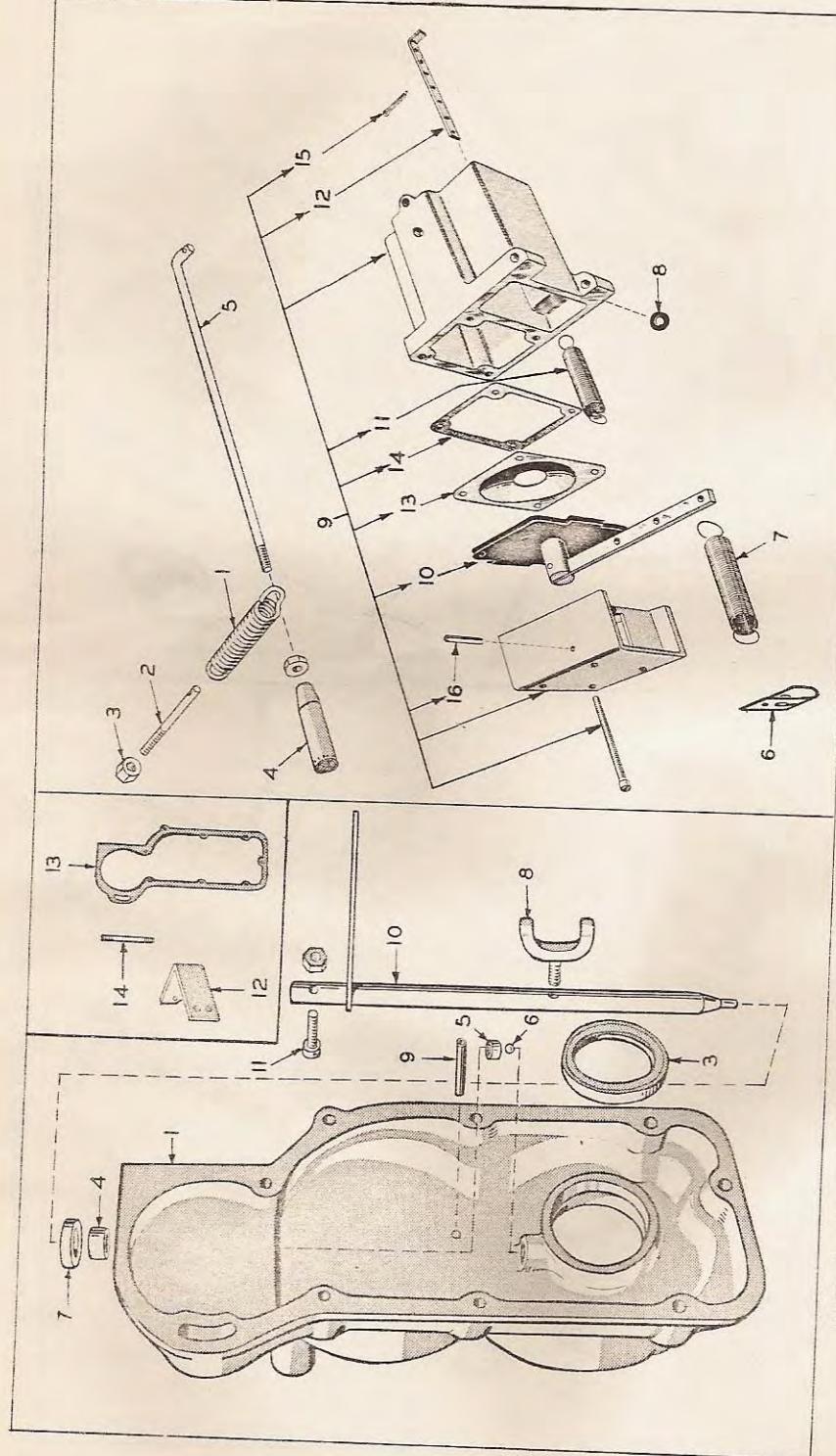


FIG. 9 - GOVERNOR GROUP

FIG. 8 - GEAR COVER GROUP

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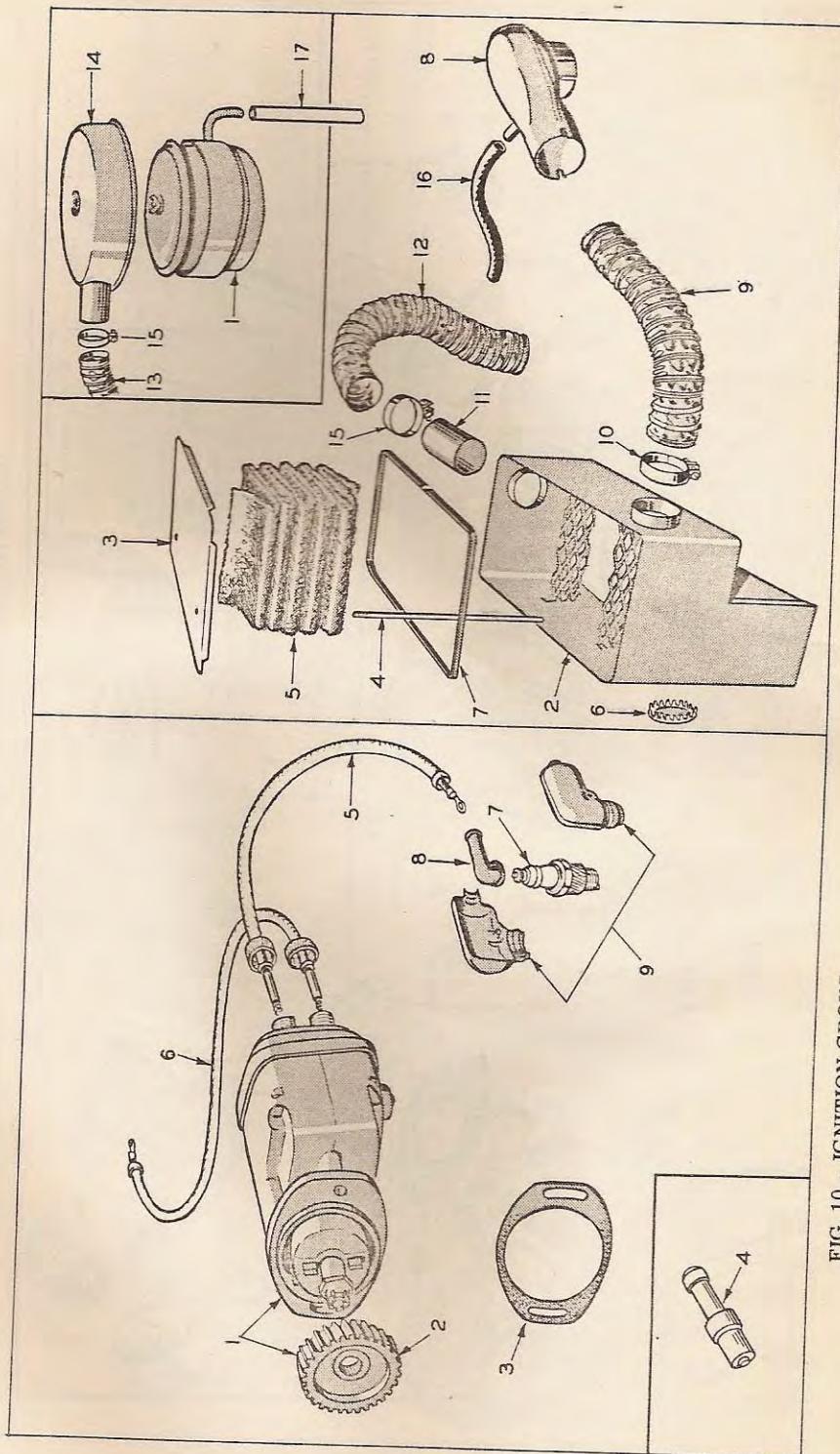


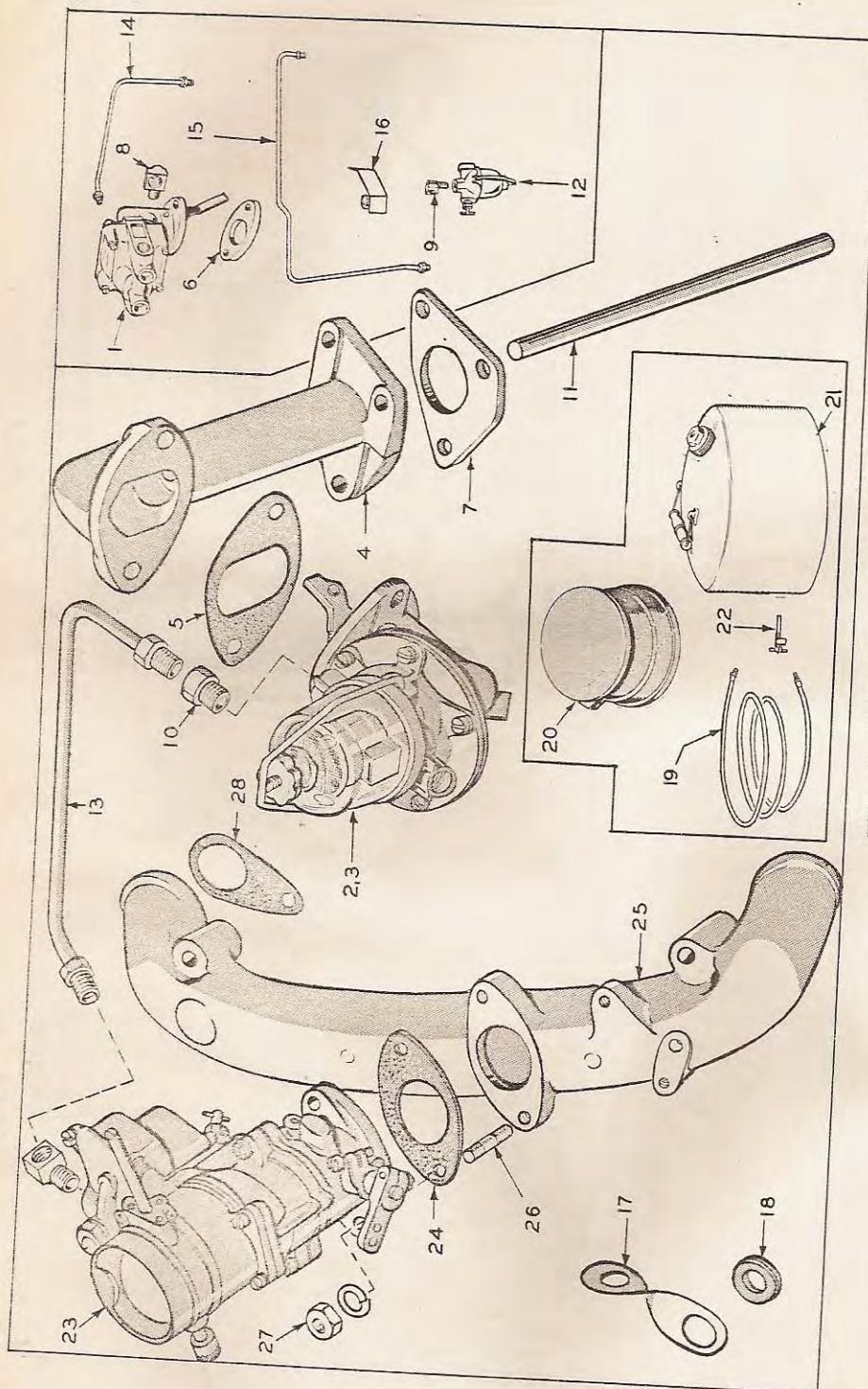
FIG. 11 - AIR CLEANER GROUP

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FIG. 12 - FUEL SYSTEM GROUP

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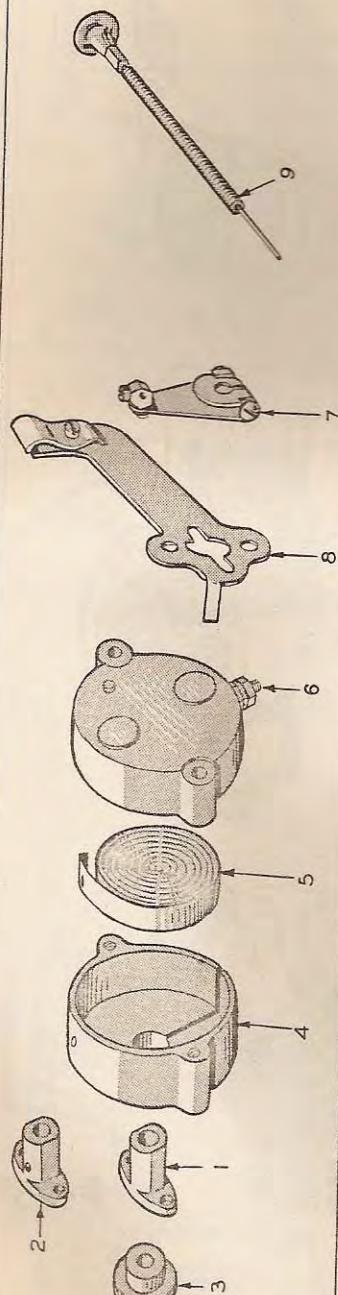


FIG. 13 - CHOKE GROUP
PAGE 28

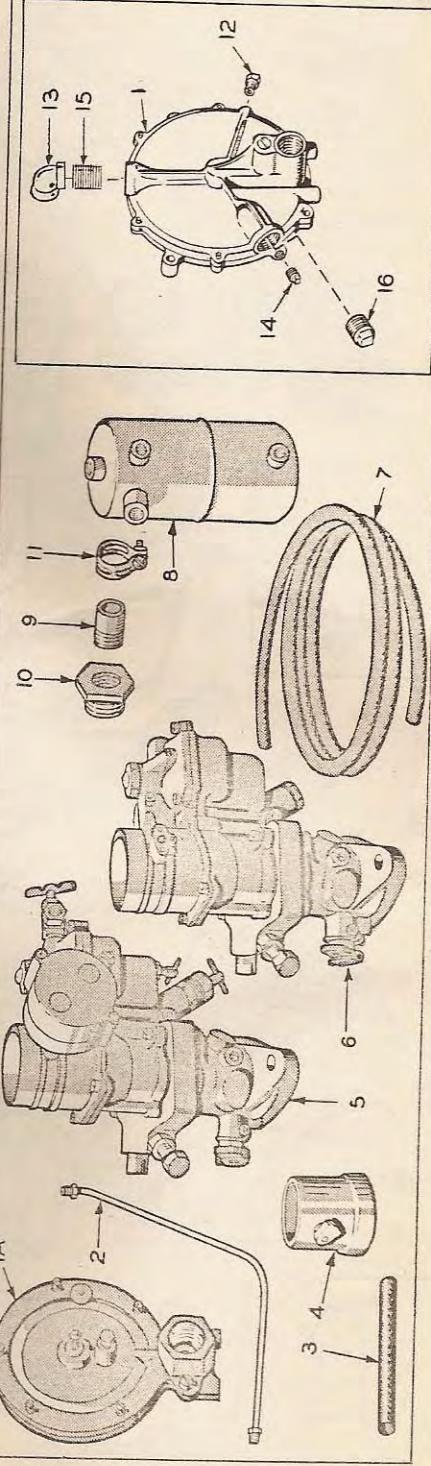


FIG. 14 - OPTIONAL FUEL SYSTEM GROUP
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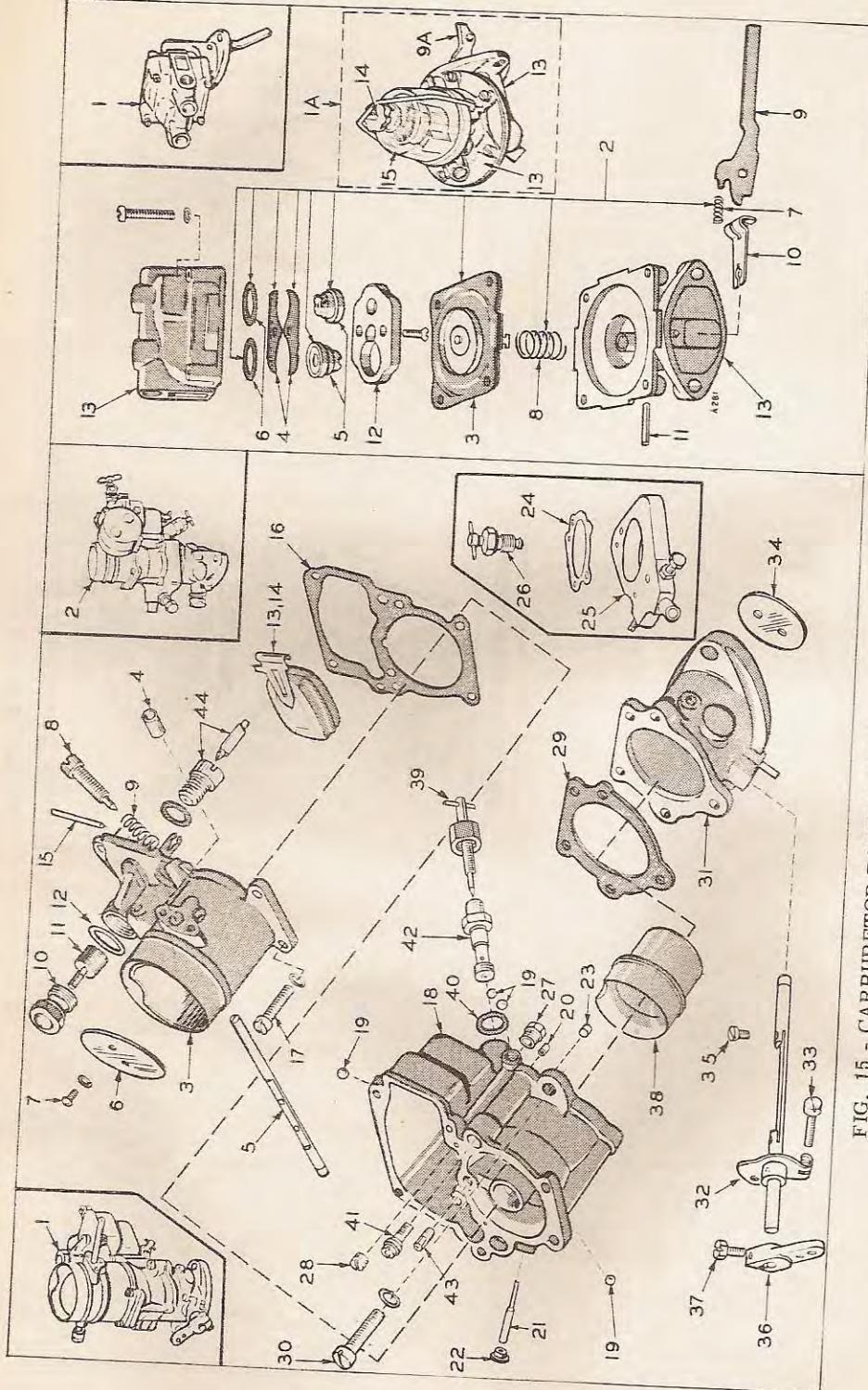


FIG. 15 - CARBURETOR PARTS GROUP

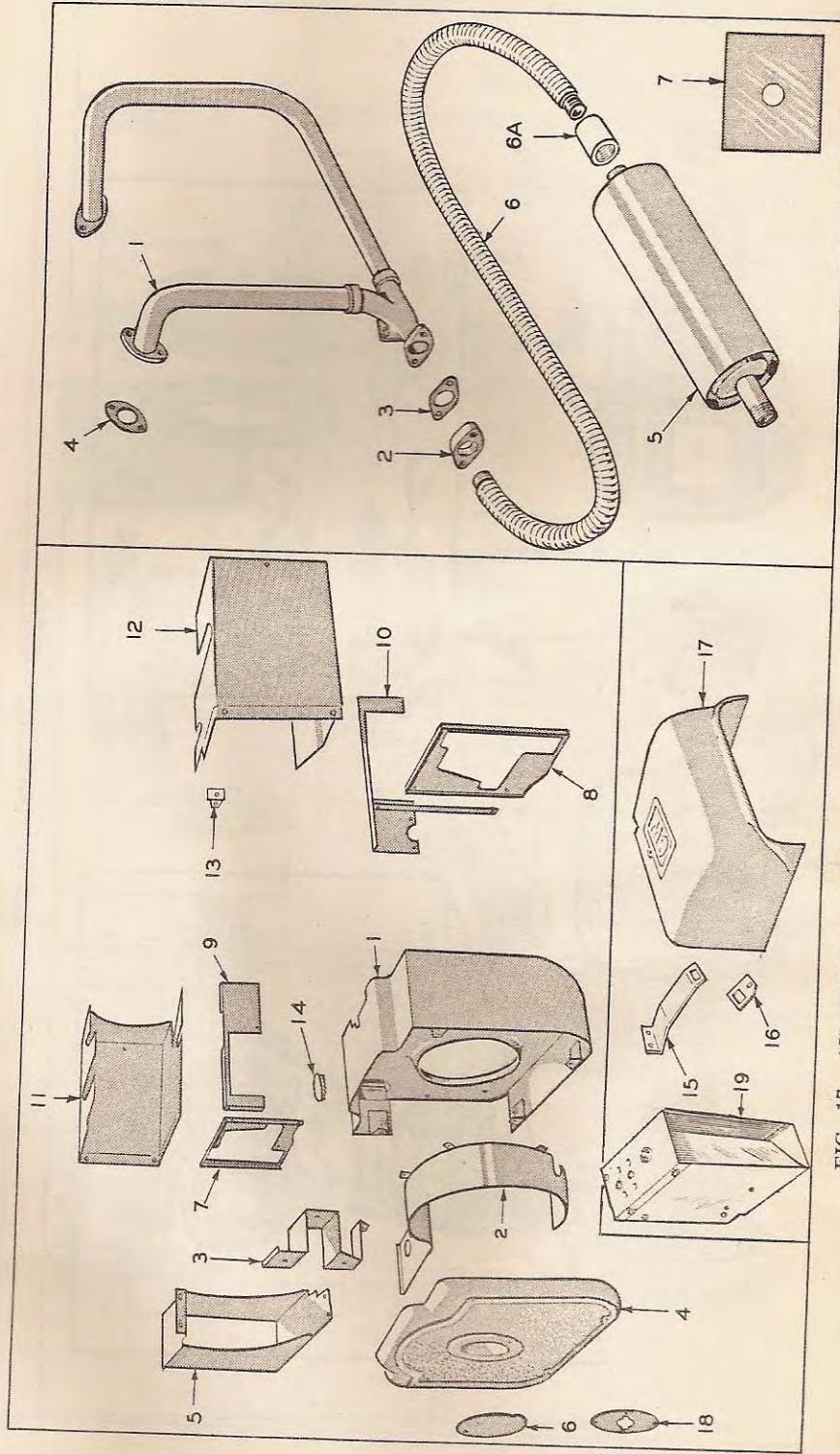


FIG. 18 - EXHAUST GROUP

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FIG. 17 - AIR HOUSING GROUP

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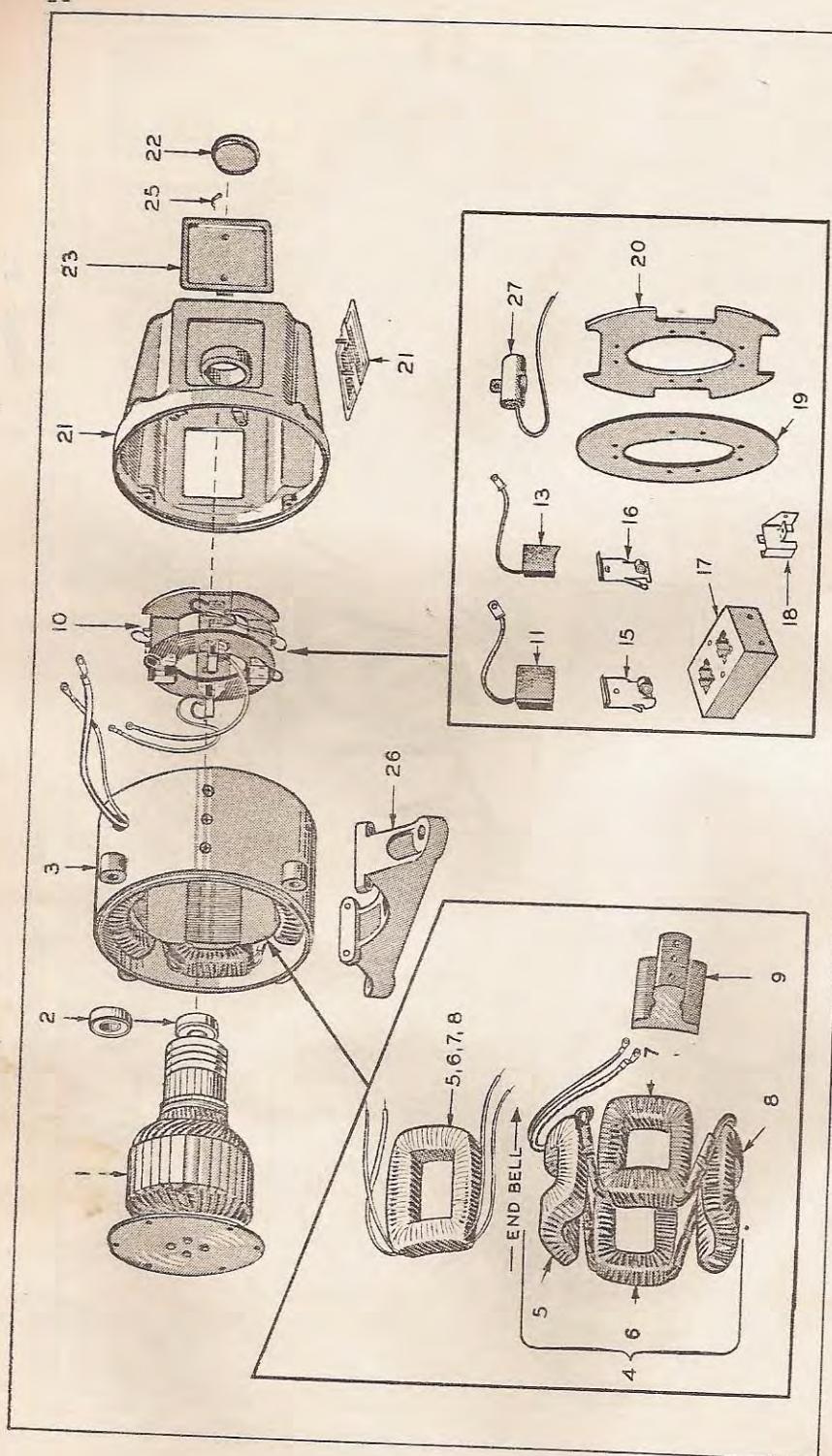


FIG. 19 - GENERATOR GROUP

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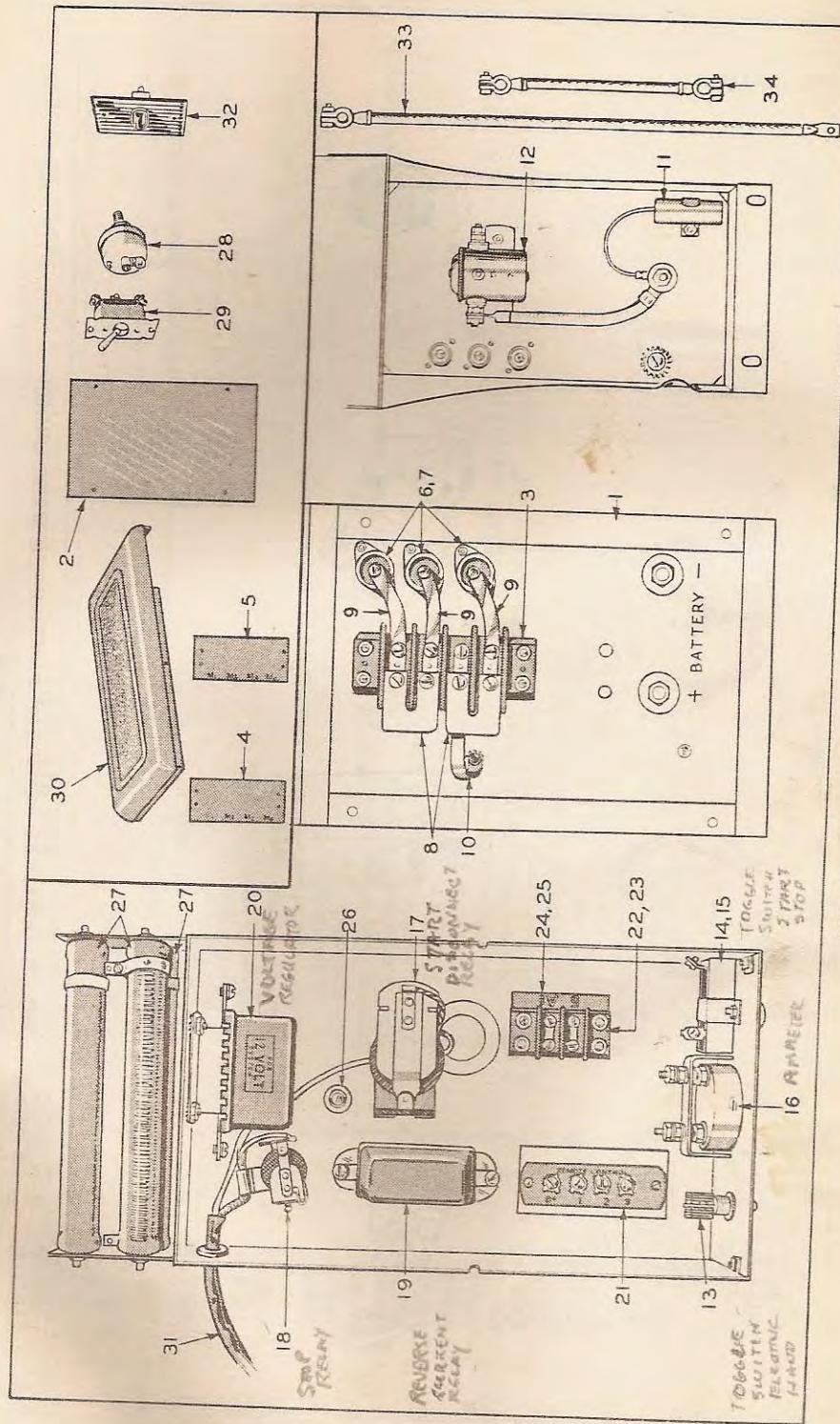


FIG. 20 - CONTROL PARTS GROUP

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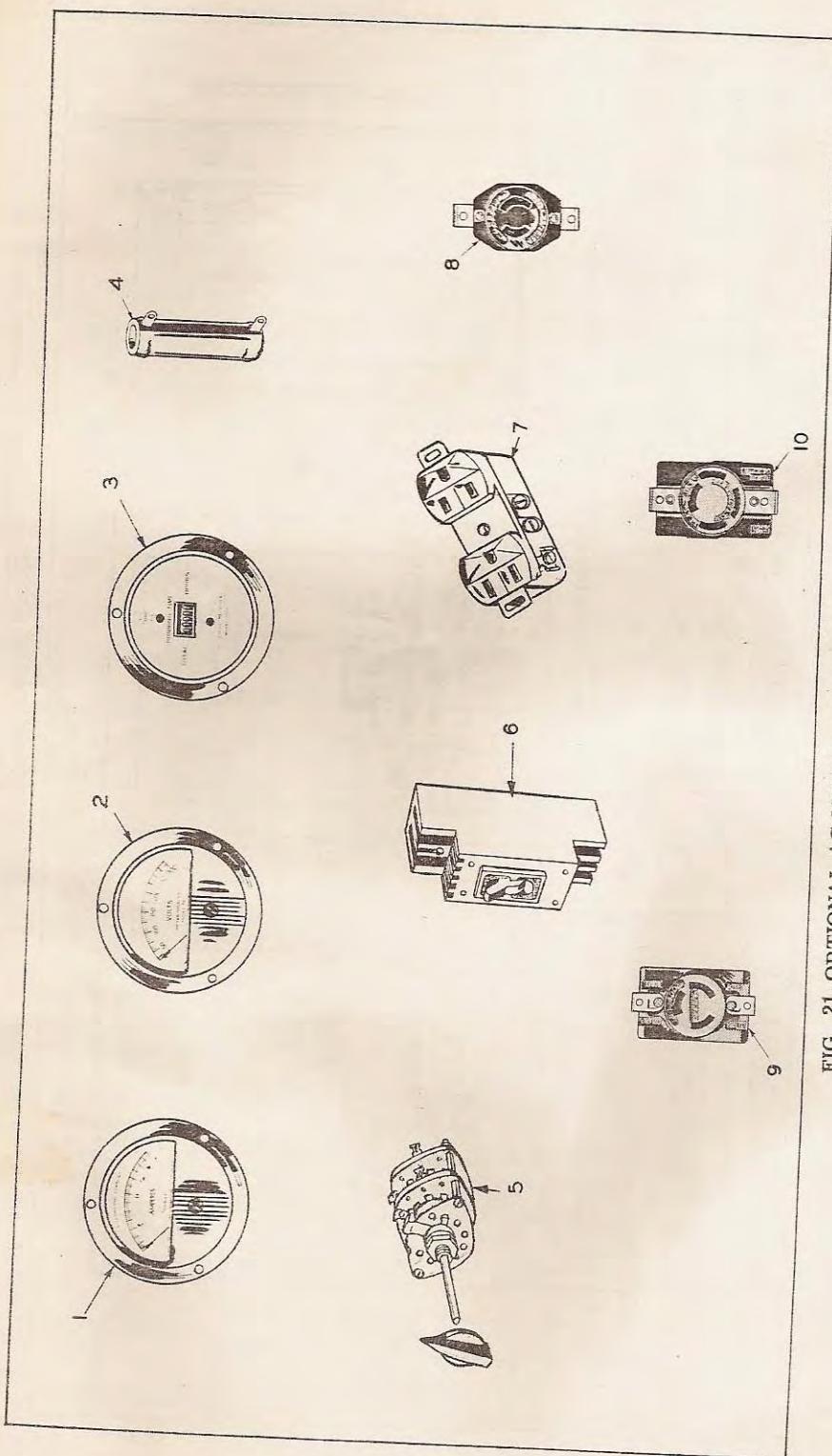


FIG. 21 - OPTIONAL AC METER PANEL EQUIPMENT GROUP

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REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
1			Crankcase, Replacement - Includes Camshaft Bearings, Main Bearings, Rear Bearing Plate - Less Studs, Oil Seal.
101A217	1	1	Bearing, Camshaft - Front.
101A236	1	1	Bearing, Camshaft - Rear.
101A70	1	1	Plate, Rear Main Bearing - Less Bearing and Lock Pin.
101A50	1	1	Prior to Spec. E.
101C67	1	1	Begin Spec. E.
101C268	1	2	Bearing Kit, Main - Front or Rear - Includes Lock Pin - Standard, or .002", .020" Undersize.
101K220	2	2	Pin, Lock - Main Bearing.
516A72	2	2	Plug, Pipe - Countersunk Head.
505-274	4	4	Plug, Expansion - Rear Camshaft Bearing Opening.
517-18	1	1	Elbow, Inverted Flare - Oil Filter Lines.
502-2	2	2	Stud, Rear Bearing Plate - Prior to Spec. E - 5-1/16" x 1-7/16".
520A11	8	8	Bolt, Place - Rear Bearing Plate - Begin Spec E - 3/8" x 1".
805-18	8	8	Stud, Cylinder Base - 1-1/2" x 2-5/16".
520A431	8	8	Stud, Cylinder Base - 3-1/8" x 1-13/16".
520A434	2	2	Stud, Oil Base - 7-1/16" x 3-1-1/16" - Spec A.
520A432	2	2	Stud, Oil Base - 7-1/16" x 2-1/8" - Spec A.
520A433	2	2	Stud, Gear Cover.
520A9	6	6	5-1/16" x 1-7/8" - Spec A.
520A11	1	1	5-1/16" x 1-7/16" - Begin Spec B.
520A118	6	6	Stud, Flywheel Housing - 3/8" x 1-1/2" - Spec A.
509P64	1	1	Seal, Oil - Crankshaft Rear.
101K116	1	1	Gasket Kit - Rear Bearing Plate - Assorted Thickness.
110B640	2	2	Cover, Valve Box.
110A647	2	2	Gasket, Valve Box Cover.
526-63	2	2	Washer - Copper - 1/4" - Valve Cover Screw.

FIG. 1 - CRANKCASE GROUP

PARTS LIST

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
22	101E188	1	Housing, Flywheel.
	101E222	1	Spec. A only.
	101B229	1	Parts Key Nos. 1, 2, 3, 4 - Begin Spec. B.
23	403A95	1	Parts Key No. 5.
24	101A154	1	Bolt, Eye - Lifting.
25	123A445	1	Plate, Cover, Flywheel Housing Opening - Spec. A.
26	123A458	1	Tube, Breather - Begin Spec. B.
27	123A315	1	Cap, Breather Tube - Begin Spec. B.
28	123-452	1	Valve, Breather.
			Filter, Breather Tube - Begin Spec. B.

FIG. 1 - CRANKCASE GROUP (Cont.)

FIG. 2 - OIL PUMP, OIL FILTER & BY-PASS GROUP			
	120A222	1	Piston, Valve - Oil By-Pass.
	120A270	1	Spring, Oil By-Pass.
3	120A380	1	Screw, Guide - Oil By-Pass
4	526-69	1	Washer - Copper - Oil By-Pass.
5	120A279	1	Pump, Oil.
6	120K161	1	Gasket Kit, Oil Pump.
7	120B275	1	Cup, Intake - Oil Pump.
8	122C56	1	Filter, Oil - Includes Cartridge.
9	122C89	1	Bracket, Oil Filter.
	122C120	1	Spec. A.
10	193P6	1	Begin Spec. B.
11	122-37	1	Gauge, Oil Pressure.
12	502-57	1	Cartridge, Oil Filter.
13	505-52	1	Tee, Oil Filter Inlet.
14	502-3	1	Elbow, Oil Pressure Gauge Connection.
15	122B94	2	Connector, Inverted Flare - Oil Lines to Filter.
16	122B95	1	Line, Oil - Filter Inlet.
17	120A182	1	Line, Oil - Filter Outlet.

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
1	102E220	1	Base, Oil.
	102E262	1	Spec. A.
2	102B223	2	Begin Spec. B.
	102B271	2	Foot, Oil Base.
3	102A221	1	Spec. A.
	102A248	1	Begin Spec. B.
4	102A222	1	Cover, Oil Base Opening.
5	102B215	1	Standard.
6	505-51	1	Optional - For Heater Assembly - Less Heater.
7	505-268	1	Gasket, Oil Base Opening Cover.
8	505-29	1	Gasket, Oil Base to Crankcase.
9	505-130	1	Elbow, Street - Oil Base Drain - 3/4 x 90°.
10	123C402	1	Pipe, Oil Drain - 3/4 x 9.
11	123C388	1	Coupling, Drain Pipe - 3/4".
12	123A380	2	Plug, Oil Drain - 3/4".
13	123A437	1	Tube, Oil Fill - Spec. A only.
14	123A315	1	Housing, Crankcase Breather - Spec. A only.
15	123B409	1	Gasket - Oil Fill Tube, Breather Housing - Spec. A only.
16	123A410	1	Tube, Oil Fill - Begin Spec. B.
			Valve, Breather - Spec. A - (Begin Spec. B, Location changed to Separate Breather Tube - See Fig. 1).
17	123A378	1	Cap, Breather Housing - Spec. A only.
18	123A439	1	Gasket, Breather Housing - Spec. A only.
19	402A36	4	Indicator, Oil Level.
20	402A38	4	Spec. A only.
21	402A46	4	Begin Spec. B.
22	526A124	8	Cushion, Mounting - Upper.
23	402A103	4	Cushion, Mounting - Lower.
			Bushing, Cushion Spacer.
			Washer, Mounting Cushion.
			Mounting Assembly - Includes Reference Nos. 19, 20, 21, 22 plus Hardware.

PARTS LIST

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
24	383B42	1	
25	389-29	1	Element, Heater - Oil Base (Optional). Thermostat - Oil Heater Control (Optional).

FIG. 3 - OIL BASE GROUP (Cont.)

FIG. 4 - CYLINDER & VALVE GROUP

1	110C757	1	Block, Cylinder - Includes Valve Guides and Exhaust Valve Seat Insert - Less Valves etc.
2	110C756	1	Left Hand (When facing blower end).
3	110B644	4	Right Hand (When facing blower end).
4	110A646	2	Guide, Valve.
5	110B642	2	Insert, Exhaust Valve Seat - Stellite.
6	110B643	2	Valve, Exhaust - Stellite Faced.
7	110A738	4	Valve, Intake.
8	110A648	4	Spring, Valve.
9	110A639	8	Retainer, Valve Spring.
10	115A34	4	Lock, Valve Spring Retainer.
11	520A11	4	Tappet, Valve - Includes Adjusting Screw.
			Stud, Exhaust Manifold.
			Head, Cylinder.
12	110D638	1	Left Hand (When facing Blower end) - Gasoline or Gas-Gasoline Plant
12	110D749	1	Left Hand (When facing blower end) Gas (Only) Plant - Not for gasoline
13	110D637	1	Right Hand (When facing blower end) - Gasoline or Gas-Gasoline Plant
13	110D748	1	Right Hand (When facing blower end) - Gas (Only) Plant - Not for gasoline
14	110B641	2	Gasket, Cylinder Head - Right or Left
15	110B645	2	Gasket, Cylinder Base - Right or Left
16	110A707	8	Nut, Cylinder Base Mounting - 1/2"-20 - Hardened
17	104A91	2	Nut, Cylinder Base Mounting - 1/2"-20 - Hardened

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
18	110A815	10	Screw, Hex Head - 3/8"-24 x 2" - Hardened - Cylinder Head Mounting - Begin Spec. B - (Replaces #520A429 Stud used Spec. A).
19	110A814	8	Screw, Hex Head - 3/8"-24 x 1-1/2" - Hardened - Cylinder Head Mounting - Begin Spec. B - (Replaces #520A430 Stud used Spec. A).
20	526A127	18	Washer, Cylinder Head Mounting.

FIG. 4 - CYLINDER & VALVE GROUP (Cont.)

FIG. 5 - CONNECTING ROD & PISTON GROUP

1	112-55	2	Piston and Pin - Specify: Standard or, .010", .020", .030" Oversize.
2	112A19	4	Ring, Lock - Piston Pin.
3	112A54	2	Pin, Piston.
4, 5	113A58	4	Ring, Piston - Compression - Specify: Standard, .010", .020", .030" Oversize.
6	113A56	2	Ring, Oil Control - Specify: Standard, .010", .020", .030" Oversize.
7	113-59	2	Ring Set, Piston - For 1 Piston - Specify Size.
8	114B65	2	Rod, Connecting - Includes Bearings - Specify: Standard, .002", .020" Undersize.
9	114B53	4	Bearing Half, Connecting Rod - Specify: Standard, .002", .020" Undersize.
10	114B54	4	Bushing, Piston Pin - Semi Finished.
11	114A20	4	Washer, Lock - Connecting Rod Screw - (See Ref. 13).
12	114A57	4	Screw, Connecting Rod - (See Ref. 13).
13	805-20	4	Bolt, Place - Replaces 114A20 and 114A57.

FIG. 6 - CRANKSHAFT & CAMSHAFT GROUP

1	104D172	1	Crankshaft.
2	104B1	1	Gear, Crankshaft.
3	515-1	2	Key, Crankshaft or Camshaft Gear.

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
4	104A95	1	Washer, Crankshaft Gear.
5	518-16	1	Ring, Lock - Crankshaft Gear Washer.
6	105A112	1	Camshaft - Includes Center Pin.
7	105B107	1	Gear, Camshaft.
8	150A413	1	Plate, Back - Governor Ball.
9	150C417	1	Spacer, Governor Ball.
10	510-46	12	Ball, Fly - Governor.
11	150A440	1	Cup, Governor.
12	150P437	1	Ring, Snap - Center Pin.
13	105A42	1	Washer, Thrust - Camshaft Gear.
14	516A116	2	Pin, Roll - Crank Guide Pilot.
			Crank, Hand.
15	192C204	1	Spec. A & B, Standard.
	192C259	1	Spec. A & B, Housed Plant.
16	192C268	1	Begin Spec. C.
17	150A435	1	Pin, Camshaft Center.

FIG. 6 - CRANKSHAFT & CAMSHAFT GROUP (Cont.)

4	104D192	1	Flywheel.
	104A205	1	Parts Key Nos. 1, 2, 3, 4.
	104A160	1	Parts Key No. 5 - Includes Ring Gear.
2	515-90	1	Washer, Flywheel.
3	134C388	1	Key, Flywheel Mounting.
4	134C387	1	Wheel, Blower.
5	192B193	1	Hub, Blower Wheel.
6	516A11	2	Support Guide, Crank - Includes Dowel Pins - Spec. A & B.
7	520A451	1	Pin, Dowel - Crank Support - Spec A & B.
8			Stud, Blower Wheel and Support - Spec. A & B.

FIG. 7 - FLYWHEEL & BLOWER WHEEL GROUP

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
9	104B252	1	Dog, Crank Engagement - Begin Spec. C.
10	104-137	1	Gear, Ring - Flywheel - Parts Key No. 5.
11	806-38	1	Screw, Crank Dog Mounting - Begin Spec. C.

FIG. 7 - FLYWHEEL & BLOWER WHEEL GROUP (Cont.)

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
1	103C115	1	Cover, Gear - Assembly. Incl. Ref. #3-12
	103C140	1	Spec. A.
		1	Begin Spec. B.
3	509-19	1	Seal, Oil - Crankshaft Front.
4	510-48	1	Bearing, Needle - Upper.
5	510-49	1	Bearing, Needle - Lower.
6	510-14	1	Ball, Bearing - Shaft Thrust.
7	509-46	1	Seal, Oil - Governor Shaft.
8	150A444	1	Yoke, Governor Shaft.
9	516-90	1	Pin, Stop - Governor Cup Engaging.
10	150B416	1	Arm and Shaft, Governor.
11	150A438	1	Screw, Adjusting - Governor Sensitivity.
12	150A411	1	Bracket, Governor Spring.
13	103C110	1	Gasket, Gear Cover Mounting.
14	520A363	1	Stud, Arm Cover Mounting - Spec. A only.
	150A115	1	Spring, Governor.
1	150A96	1	Stud, Governor Spring Tension (Speed).
2	150A398	1	Nut, Governor Speed Adjusting.

FIG. 8 - GEAR COVER GROUP

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
1	150A115	1	Spring, Governor.
2	150A96	1	Stud, Governor Spring Tension (Speed).
3	150A398	1	Nut, Governor Speed Adjusting.

PARTS LIST

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
4	150A300	1	
5	150A410	1	Joint, Ball - Governor Link.
6	150A495	1	Link, Governor Arm to Carburetor.
7	150A471	1	Bracket, Booster External Spring - Parts Key Nos. 3, 4 & 5.
8	150A425	1	Spring, External - Booster - Parts Key Nos. 3, 4 & 5.
9	150K580	1	Ring, Gasket - Booster to Manifold - Parts Key Nos. 3, 4 & 5.
10	150K582	1	Kit, Booster Replacement - Parts Key Nos. 3, 4 & 5.
11	150A475	1	Kit, Booster Diaphragm - Parts Key Nos. 3, 4 & 5.
12	150A376	1	Spring, Booster - Internal - Parts Key Nos. 3, 4 & 5.
13	150A666	1	Bracket, Booster Internal Spring - Parts Key Nos. 3, 4 & 5.
14	150A668	1	Plate, Diaphragm - Booster - Parts Key Nos. 3, 4 & 5. (Replaces #150A373)
15	516-39	1	Gasket, Diaphragm Plate - Parts Key Nos. 3, 4 & 5. (Replaces #150A374).
16	516-85	1	Pin, Cotter - 3/32 x 5/8 - Parts Key Nos. 3, 4 & 5.
			Pin, Roll - 3/32 x 3/4" - Parts Key Nos. 3, 4 & 5.

FIG. 9 - GOVERNOR GROUP (Cont.)

4	161A148	1	
5	160B339	1	Magneto - Includes Drive Gear - Less Stop Button.
6	160A124	1	Gear, Magneto Drive.
7	161P152	1	Gasket, Magneto Mounting.
8	167A1213	1	Button, Stop - Parts Key Nos. 1 & 3.
9	167A1277	1	Cable, Spark Plug - Right Hand.
			Parts Key Nos. 1, 2, 3 & 4.
			Parts Key No. 5.
6	167A1214	1	Cable, Spark Plug - Left Hand.
7	167A1278	1	Parts Key Nos. 1, 2, 3 & 4.
8	167-34	2	Parts Key No. 5.
9	166-105	2	Plug, Spark (Replaces #167-35).
	167A41	2	Nipple, Spark Plug.
			Shield, Spark Plug.

FIG. 10 - IGNITION GROUP

1	167A1213	1	
2	160B339	1	Magneto - Includes Drive Gear - Less Stop Button.
3	160A124	1	Gear, Magneto Drive.
4	161P152	1	Gasket, Magneto Mounting.
5	167A1277	1	Button, Stop - Parts Key Nos. 1 & 3.
6	167A1214	1	Cable, Spark Plug - Right Hand.
7	167A1278	1	Parts Key Nos. 1, 2, 3 & 4.
8	167-34	2	Parts Key No. 5.
9	166-105	2	Plug, Spark (Replaces #167-35).
	167A41	2	Nipple, Spark Plug.
			Shield, Spark Plug.

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
MAGNETO PARTS GROUP (NOT ILLUSTRATED)			
	161-178	1	Condenser, Magneto.
	161-86	1	Pont Set, Contact.
	161-117	1	Cap, End.
	161A42	1	Gasket, End Cap to Frame.
	161-168	1	Coil.
	161-169	1	Rotor Assembly.
	161-18	1	Ring, Snap - Rotor Drive End Bearing.
	161-127	1	Ring, Snap - Rotor Shaft Drive End.
	161P71	1	Bearing, Drive End.
	161-72	1	Bearing, Opposite Drive End.
	161-34	1	Washer, Rotor Drive End Seal - Inner.
	161-128	1	Washer, Rotor Drive End Seal - Outer.
	161-56	AS REQ.	Shim, Rotor Drive End Seal.
	161-62	1	Washer, Rubber - Bearing Seal.
	161-122	1	Baffle Disc - Oil Slinger.
	161-87	1	Support, Contact Points.
	161-123	1	Outlet, Cable.
	161-171	1	Coupling Assembly, Impulse.
	161-51	1	Spring, Impulse Coupling.
	161-172	1	Pin, Coupling Pawl Stop.
	161-53	1	Nut, Coupling.
	161-112	1	Wick, Cam Lubricating.
	161-173	1	Support, Bearing.
	161-133	1	Key, Coupling.
	140C268	1	
	140D355	1	
FIG. 11 - AIR CLEANER GROUP			
			Cleaner, Air - Oil Bath Type - Spec. A.
			Housing, Air Cleaner - Dry Type - Begin Spec. B.

PARTS LIST

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
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FIG. 11 - AIR CLEANER GROUP (Cont.)

3	140B356	1	Cover, Air Cleaner Housing - Dry Type - Begin Spec. B.
4	520A75	2	Stud, Air Cleaner Cover - Dry Type - Begin Spec. B.
5	140-359	1	Element, Air Cleaner - Dry Type - Begin Spec. B.
6	517-9	1	Plug, Button - Air Cleaner - Begin Spec. B.
7	140B467	1	Gasket, Air Cleaner Cover - Begin Spec. B. (replaces 508-73)
8	140A357	1	Inlet, Carburetor Air - Begin Spec. B.
9	503A263	1	Hose, Air Cleaner to Carburetor - Begin Spec. B. (Gasoline Models).
10	503B42	1	Hose, Air Cleaner to Carburetor - Begin Spec. B. (Gas-Gasoline Models).
11	503-274	AS REQ.	Clamp, Air Cleaner Hose - Begin Spec. B.
12	133A32	AS REQ.	Tube, Air Pre-Heater - Spec. A (1), Begin Spec. B. (2).
12	503-259	1	Hose, Air Pre-Heater - Spec. A (1), Begin Spec. B. (2).
13	503A215	1	Hose, Air Pre-Heater - Spec. A.
14	133K30	1	Kit, Air Pre-Heater - Spec. A - Includes Air Adapter, Hose, Clamps and Tube.
15	503-269	2	Clamp, Air Pre-Heater Hose
16	503A275	1	Hose, Breather Cap to Air Inlet - Begin Spec. B.
17	123A411	1	Tube, Breather Cap to Air Cleaner (See optional fuel system also) Spec. A.
	508-31	1	Grommet, Rubber - Air Cleaner - Begin Spec. B.

FIG. 12 - FUEL SYSTEM GROUP, STANDARD
(See also Optional Fuel System Group)

1	149C559	1	Pump, Fuel - Spec. A.
2	149C567	1	Pump, Fuel - Begin Spec. B - Parts Key Nos. 2, 4 and 5 (Replaces Carter Pump).
3	149C530	1	Pump, Fuel - Begin Spec. B - Parts Key Nos. 1 and 3.
4	149C528	1	Adapter, Fuel Pump - Begin Spec. B.
5	149A277	1	Gasket, Fuel Pump to Adapter - Begin Spec. B.
6	149A388	1	Spacer, Fuel Pump Mounting - Spec. A.
7	149A520	1	Spacer, Fuel Pump Adapter Mounting - Begin Spec. B.
8, 9	502-2	AS REQ.	Elbow, Fuel Line Connection - Spec. A (3), Begin Spec. B (2).

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
FIG. 12 - FUEL SYSTEM GROUP, STANDARD (Cont.)			
10	502-3	1	Connector, Fuel Line - Fuel Pump Outlet - Begin Spec. B.
11	149A519	1	Rod, Push - Fuel Pump Adapter - Begin Spec. B.
12	149B79	1	Filter, Fuel - Spec. B prior to Serial No. 508834.
13	149A533	1	Line, Fuel - Pump to Carburetor.
14	149B403	1	Begin Spec. B.
15	159B407	1	Spec. A.
16	149A171	1	Line, Fuel - Supply Connection to Fuel Pump Inlet - Spec. A.
17	159A477	1	Bracket, Fuel Supply Connection - Spec. A.
18	508-21	1	Bracket, Fuel Line Support - Begin Spec. B.
19	501A9	1	Grommet, Rubber - Fuel Line Support Bracket - Begin Spec. B.
	501A27	1	Line, Fuel - Tank to Plant.
	501A81	1	Spec. A.
20	415A124	1	Begin Spec. B.
21	415P125	1	Use with Dome Top Tank.
22	504A13	1	Rain Cap - Use with #415P125 Tank.
23			Tank, Fuel - 5 gallon with Dome top - Replaces Flat Top Tank #415A10.
			Valve, Shut-Off - Fuel Tank.
			Carburetor - Gasoline.
24	141C560	1	Parts Key Nos. 1 and 2 (Replaces #141C479).
	141C564	1	Parts Key Nos. 3, 4 and 5 (Replaces #141C466).
25	154A133	1	Gasket, Carburetor to Manifold.
			Manifold, Intake.
26	154D253	1	Parts Key Nos. 1 and 2 - Spec. A.
	154D314	1	Parts Key Nos. 1 and 2 - Begin Spec. B.
	154A266	1	Parts Key Nos. 3 and 4 - Spec. A.
	154D315	1	Parts Key Nos. 3, 4 and 5 - Begin Spec. B.
27	520A311	2	Stud, Carburetor to Manifold.
	868-3	2	Nut, Carburetor Stud.
28	154A252	2	Gasket, Intake Manifold Mounting.
			Kit, Fuel Pump Repair.
	149K526	1	Spec. A.
	149K106	1	Begin Spec. B (AC Mfr. pump only).

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
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FIG. 13 - CHOKE GROUP

1	153A155	1	Adapter, Automatic Choke to Carburetor.
2	141A502	1	Parts Key Nos. 2, 4 and 5 - For Gasoline (only) Carburetor.
3	141A372	1	Parts Key Nos. 2, 4 and 5 - For Optional Gas-Gasoline Carburetor.
4	153A58	1	Knob, Choke Shaft - Parts Key Nos. 2, 4 and 5.
5	153-57	1	Housing, Choke Bimetal - Parts Key Nos. 2, 4 and 5.
6	153A162	1	Element, Bimetal - Parts Key Nos. 2, 4 and 5.
7	153A50	1	Cover, Choke - Includes Heating Element.
8	145A60	1	Parts Key Nos. 2 and 4.
9	141A496	1	Parts Key No. 5.
	141A497	1	Lever, Choke Shaft - Parts Key Nos. 1 and 3.
			Bracket, Choke Control Rod - Parts Key Nos. 1 and 3.
			Rod, Choke Control - Parts Key Nos. 1 and 3.

FIG. 14 - OPTIONAL FUEL SYSTEM GROUP
PARTS KEY NOS. 2, 4 & 5 ONLY

1	148C311	1	Regulator, Garretson Gas.
1A	148-9	1	Regulator, Ensign Gas.
2	149B431	1	Line, Gasoline - Pump to Carburetor - Gas-Gasoline Models.
	149A533	1	Spec. A.
			Begin Spec. B.
3	123A412	1	Tube, Breather - Gas-Gasoline Model.
	503A267	1	Parts Key No. 2 - Spec. A.
	123A415	1	Parts Key No. 2 - Begin Spec. B.
	503A266	1	Parts Key No. 4 - Spec. A.
4	148A214	1	Parts Key No. 4 - Begin Spec. B.
5	141C492	1	Choke, Gas Fuel - Parts Key No. 4. - Use with Ensign regulator only.
	141C494	1	Carburetor - Gas-Gasoline Model.
			Parts Key No. 2.
			Parts Key No. 4.

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
FIG. 14 - OPTIONAL FUEL SYSTEM GROUP (Cont.) PARTS KEY NOS. 2 & 4 ONLY			
6	141C562	1	Carburetor - Gas (Only) Model.
	141C519	1	Parts Key No. 2.
	503-260	1	Parts Key No. 4.
7	159B294	1	Hose, Gas Regulator to Carburetor.
8	505-135	1	Tank, Reservoir - Gravity Feed - Gasoline.
9	505-131	1	Nipple, Half - Gas Regulator Outlet.
10	503-49	1	Bushing, Gas Regulator Outlet - Use with Ensign regulator only.
11	148A107	2	Clamp, Gas Hose.
12	505-39	1	Vent - Use with Garretson regulator.
13	505-57	1	Elbow, 3/8" - Use with Garretson regulator.
14	505-101	1	Plug, Pipe - 1/8" - Use with Garretson regulator.
15	505-130	1	Nipple, 1" - Use with Garretson regulator.
16	307P312	1	Plug, Pipe - 3/4" - Use with Garretson regulator.
	149-558	1	Valve, Solenoid - Gas Fuel.
		1	Strainer - Gas Fuel.

FIG. 15 - CARBURETOR PARTS GROUP			
1	141C560	1	Carburetor - Gasoline.
	141C564	1	Parts Key Nos. 1 & 2.
		1	Parts Key Nos. 3, 4 & 5.
2	141C492	1	Carburetor.
	141C494	1	Gas-Gasoline - Parts Key No. 2.
	141C562	1	Gas-Gasoline - Parts Key No. 4.
	141C519	1	Gas (only) - Parts Key No. 2.
	141-530	1	Gas (only) - Parts Key No. 4.
3	141-531	1	Body, Air Intake.
4	141A478	1	Bushing, Choke Shaft - Included with #141-530.
5	141-532	1	Shaft, Choke.
6	141-471	2	Plate, Choke.
7	141-8	1	Screw, Choke Plate.
8	141-9	1	Needle, Idle Adjusting.
9		1	Spring, Idle Needle.

PARTS LIST

FIG. 15 - CARBURETOR PARTS GROUP (Cont.)

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
10	141-533	1	Plug, Fuel Filter Head.
11	141-566	1	Filter, Fuel Inlet.
12	141-534	1	Washer, Gasket - Filter Plug.
13	141-535	1	Float - Gasoline Carburetor.
14	141A493	1	Float - Gas-Gasoline Carburetor.
15	141-72	1	Axle, Float.
16	141-536	1	Gasket, Intake to Bowl.
17	141-537	6	Screw, Intake to Bowl.
18	141-538	1	Bowl, Fuel - Includes Reference Nos. 19, 20, 21, 22 and 23.
19	141-539	4	Plug, Lead - Bowl Passages.
20	141-540	1	Bushing, Idle Channel.
21	141-541	1	Jet, Blank - Accelerator.
22	141-542	1	Plug, Jet Channel - Accelerator.
23	141-543	1	Plug, Accelerator Pump Rod Channel.
24	148A198	1	Gasket, Gas Adapter - Gas Carburetors only.
25	148B197	1	Adapter, Gas Fuel - Gas Carburetors only.
26	148A135	1	Lock, Float - Gas Carburetors only.
27	141-70	1	Plug, Bowl Drain.
28	141-544	1	Plug, Power Jet Channel.
29	141-545	1	Gasket, Bowl to Throttle Body.
30	141-546	2	Screw, Bowl to Body.
31	141-585	1	Body, Throttle - Includes Shaft, plate and Needle Bearings.
32	141K586	1	Shaft and Lever Kit, Throttle - Includes Stop Screw.
33	815-133	1	Screw, Lever Stop.
34	141-551	1	Screw, Throttle Plate.
35	141-257	2	Lever, Clamp - Throttle.
36	141-552	1	Screw, Throttle Lever Clamp.
37	141-2	1	Venturi.
38	141-484	1	Parts Key Nos. 1 & 2 - Gasoline.
	141P573	1	Parts Key Nos. 3, 4, 5 - Gasoline.
	141-195	1	Parts Key No. 2 - Gas.
	141-196	1	Parts Key No. 4 - Gas.

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
39	141-553	1	Jet and Adjusting Needle Assembly, Main.
40	141A77	2	Washer, Gasket - Main Adjusting Needle and Fuel Valve.
41	141-554	1	Jet, Idle.
42	141-555	1	Jet, Discharge.
43	141-556	1	Jet, Well Vent.
44	141-323	1	Valve, Fuel Inlet.
	141-529	1	Kit, Gasket - Carburetor.
	141-563	1	Kit, Repair - Carburetor.
	141P590	1	Kit, Repair - Throttle Body Needle Bearing - Includes Seal and Washer.
504-7		1	Valve, Gasoline Inlet Shut-off - Parts Key No. 2 and 4, Gas-Gasoline.

FIG. 15 - CARBURETOR PARTS GROUP (Cont.)

FIG. 16 - FUEL PUMP PARTS GROUP

1	149C559	1	Pump, Fuel - Spec. A.
1A	149C530	1	Pump, Fuel - Begin Spec. B.
	149C537 0 449-7741		Parts Key Nos. 1 and 3 (With Priming Lever).
2	149K526	1	Parts Key Nos. 2, 4 and 5 (Less Priming Lever - Replaces Carter Mfr. Pump).
	149K106	1	Kit, Fuel Pump Repair - Spec. A - Includes Parts marked *.
3	149A582	1	Kit, Fuel Pump Repair - Begin Spec. B - AC Mfr. only - Includes Parts marked †.
	149P276	1	*Spec. A.
4	149A159	2	†Begin Spec. B.
5	149A96	2	*Gasket, Valve Retainer - Spec. A.
6	149A95	2	*†Valve.
7	149A94	1	*†Gasket, Valve.
	149P580	1	Spring, Rocker Arm.
			*Spec. A.
			Begin Spec. B.
			* Part of Repair Kit 149K526
			† Part of Repair Kit 149K106

PARTS LIST

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
FIG. 16 - FUEL PUMP PARTS GROUP (Cont.)			
8	149A93	1	Spring, Diaphragm.
	149P576	1	*Spec. A.
			Begin Spec. B.
9	149A86	1	Arm, Rocker.
9A	149P581	1	Spec. A.
			Begin Spec. B.
10	149A87	1	Link, Rocker Arm.
	149P579	1	Spec. A.
			Begin Spec. B.
11	516A25	1	Pin, Rocker Arm.
	149P578	1	Spec. A.
			Begin Spec. B.
12	149A84	1	Retainer, Valve.
	149P575	1	Spec. A.
			Begin Spec. B.
13			Body, Upper or Lower - Not sold separately, order complete pump.
14	149P573	1	Bowl, Bowl Retainer - Begin Spec. B.
15	149A481	1	Bowl, Strainer - Begin Spec. B.
	149P577	1	Bushing, Rocker Arm Pin - Begin Spec. B.
	149P483	1	Screen, Strainer - Begin Spec. B.
	149A275	1	†Gasket, Bowl - Begin Spec. B.
	149A3	2	Gasket, Mounting.
	149A277	1	*Spec. A.
			†Begin Spec. B.
			* Part of Repair Kit 149K526
			† Part of Repair Kit 149K106
FIG. 17 - AIR HOUSING GROUP			
1	134D394	1	Housing, Blower.
	134D462	1	Spec. A.
	134D503	1	Parts Key Nos. 1, 2, 3, 4 - Begin Spec. B.
			Parts Key No. 5.

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
2	134D396	1	Scroll, Blower Housing.
3	134B397	1	Grille, Air Outlet.
4	134E408	1	Panel, Blower Housing Front.
5	134D423	1	Adapter, Air Outlet.
6	134B471	1	Cover, Crank Opening - Spec. B only.
7	134B398	1	Plate, Baffle - Left Hand Cylinder.
8	134B399	1	Plate, Baffle - Right Hand Cylinder.
9	134B402	1	Extension, Left Hand Baffle Plate.
10	134B403	1	Extension, Right Hand Baffle Plate.
11	134B437	1	Shroud, Left Hand Cylinder.
12	134D458	1	Spec. A - Includes Fasteners. Begin Spec. B.
			Shroud, Right Hand Cylinder.
			Spec. A - Includes Fasteners.
			Begin Spec. B - Parts Key Nos. 1, 2, 3 and 4.
			Parts Key No. 5.
13	134D459	1	Bracket, Shroud - Begin Spec. B.
14	134D576	1	Plug, Button - Pre-Heater Tube Air Outlet.
14	134A487	2	Catch, Shroud Fastener - Spec. A only.
14	517-9	1	Right Hand Lower.
15	134B414	1	Left Hand Lower.
15	134A413	1	Catch, Shroud Fastener - Spec. A only.
16	134A411	1	Right Hand Upper.
	134A410	1	Left Hand Upper.
17	150C454	1	Cover, Governor Arm - Spec. A only.
18	192B266	1	Plate, Crank Support - Begin Spec. C.
19	134C884	1	Shutter, Automatic - Air Discharge (Optional Accessory)

PARTS LIST

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
1	155C352	1	Manifold, Exhaust.
2	155A170	1	Adapter, Exhaust Manifold Outlet.
3	154A133	1	Gasket, Exhaust Adapter.
4	155A343	2	Gasket, Exhaust Manifold.
5	155B77	1	Muffler, Exhaust.
6	155B192	1	Tube, Exhaust - Flexible.
6A	505-31	1	Coupling, Pipe - Exhaust Tube.
7	155A294	1	Plate, Wall - Exhaust Tube.

FIG. 18 - EXHAUST GROUP

FIG. 19 - GENERATOR PARTS GROUP

1	*	510A52	1	Armature - Includes Ball Bearing & Drive Disc.
2	*	*	1	Bearing, Ball - Armature (Replaces #510A2).
3	*	*	1	Frame - Machined and Drilled - Less Coils and Poleshoes.
4	*	*	1	Coil Set, Field - Set of 4 connected.
5	*	*	1	Coil, Field - Top.
6	*	*	1	Coil, Field - Left.
7	*	*	1	Coil, Field - Right.
8	*	*	1	Coil, Field - Bottom.
9	*	*	1	Coil, Commutating (Interpole) - Parts Key No. 5.
10	*	*	4	Shoe, Pole.
11	*	1	Rig Assembly, Brush - Includes Brushes & Springs.	
				Brush, Commutator.
			4	Spec. A, Parts Key Nos. 1, 2, 3, 4.
			4	Begin Spec. B, Parts Key Nos. 1, 2, 3, 4.
			4	Parts Key No. 5 only.
13	214A46	8	Brush, Collector Ring.	
	214A54	8 (or 6)	Spec. A, all Parts Key Nos.	
				Begin Spec. B.

* - Order by part description, giving plant Model, Spec. and Serial Number.

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
15	212B1106	4	Spring, Commutator Brush.
16	212B1123	8 (or 6)	Spring, Collector Ring Brush.
17	212B1120	4	Block, Holder - Collector Ring Brush.
18			Guide, Commutator Brush.
			Parts Key Nos. 1, 2, 3, 4.
			Parts Key No. 5.
19	212A1121	4	Ring, Insulator - Brush Guide.
	212A1101	4	Spec. A, all Parts Key Nos.
20	213B106	1	Begin Spec. B, Parts Key Nos. 1, 2, 3, 4.
	213B116	1	Parts Key No. 5.
	213B115	1	Spider, Brush Rig Mounting.
			Spec. A, all Parts Key Nos.
			Begin Spec. B, Parts Key Nos. 1, 2, 3, 4.
21	212B1119	1	Bell, End.
	212B1138	1	Spec. A, all Parts Key Nos.
			Begin Spec. B, Parts Key Nos. 1, 2, 3, 4.
21	211D76	1	Cover, Bearing.
	211D91	1	Parts Key Nos. 1, 2, 3, 4.
	211D90	1	Parts Key No. 5.
22	232A601	1	Cover, End Bell Opening.
	232A1031	1	Parts Key Nos. 1, 2, 3, 4 - Top and Sides.
23	232B814	3	Parts Key No. 5 - Top.
	232B1089	2	Parts Key No. 5 - Lower Left.
	232B1093	1	Parts Key No. 5 - Lower Right.
	232B1162	1	Cover, End Bell Opening - Parts Key Nos. 1, 2, 3, 4 - Bottom.
24	232B841	1	Clip, Bearing Stop.
25	232A615	1	Support, Generator Frame.
26	232C784	1	Condenser, Brush Rig.
27	312A17	1	

FIG. 19 - GENERATOR PARTS GROUP (Cont.)

PARTS LIST

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
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FIG. 20 - CONTROL PARTS GROUP

1	301D857	1	Box, Connection.
2	301D990	1	Spec. A.
3	301B856	1	Begin Spec. B - Parts Key Nos. 1, 2, 3 & 4.
4	332A254	1	Cover, Connection Box.
	332A419	1	Block, Terminal - Load Connection.
	332A435	1	Parts Key Nos. 1 & 2 Prior to Spec. E - 3-7/8" long.
	332A434	1	Marker, Terminal Block.
	332A437	1	Parts Key Nos. 1 & 2 Begin Spec. E, all Parts Key Nos. 3 & 4 - 6-1/4" long.
5	332A436	1	Marker, Terminal Block.
	332A436	1	Parts Key Nos. 1 & 2 Prior to Spec. E - 3-7/8" long - marked M1, M2, M3, M4.
	332A436	1	Parts Key Nos. 1 & 2 Begin Spec. E - 3-7/8" long - marked M1, M2, M3, M4.
6	312A22	2 (or 3)	M1, M2, M3, M4.
7	312P87	3	Parts Key Nos. 1 & 2 Begin Spec. E, all Parts Key Nos. 3 & 4 - 6-1/4" long - marked M1, M2, M3, M4.
8	332A439	2	Condenser, Load Terminal.
	332A440	2	Spec. A.
9	332A484	3	Begin Spec. B.
10	332A464	1	Jumper, Terminal - Voltage Selection - Single phase models only.
11	312A17	1	Parts Key Nos. 1 & 2, Prior to Spec. E.
12	307B40	1	Parts Key Nos. 1 & 2, Begin Spec. E, all Parts Key Nos. 3 & 4.
13	308-2	1	Jumper, Terminal to Ground - Parts Key Nos. 1, 2, 3 & 4.
14	308-26	1	Condenser, Battery Positive Terminal - Parts Key Nos. 1, 2, 3 & 4.
15	308-90	1	Relay, Solenoid - Start Circuit - Parts Key Nos. 1, 2, 3 & 4.
16	302-58	1	Switch, Toggle - Hand or Electric Start - Parts Key Nos. 1, 2, 3 & 4.
	302-60	1	Switch, Toggle - Start & Stop - Parts Key Nos. 2 & 4 - Spec. A.
17	306A28	1	Ammeter, Charge.
			Parts Key Nos. 2 & 4.
			Parts Key No. 5.
			Relay, Start Disconnect - Parts Key Nos. 2 & 4.

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
18	307B52	1	Relay, Stop.
	307B253	1	Parts Key Nos. 2 & 4 - Spec. A.
	307B180	1	Parts Key Nos. 2 & 4 - Begin Spec. B.
19	305A1	1	Relay, Reverse Current - Parts Key Nos. 2 & 4.
20	332A222	1	Regulator, Voltage - Charge Circuit - Parts Key Nos. 2 & 4.
21			Block, Terminal - Remote Control - Parts Key Nos. 2 & 4.
22	332A406	1	Block, Terminal.
			3 Place - Parts Key Nos. 2 & 4 Spec. A - Parts Key No. 5.
23	332A333	1	2 Place - Parts Key Nos. 2 & 4 Begin Spec. B.
			Marker, Terminal Block.
24	332A438	1	Parts Key Nos. 2 & 4 Spec. A - Marked 4, 5, 6.
25	332A483	1	Parts Key Nos. 2 & 4 Begin Spec. B - Marked 5, A1.
	332A426	1	Parts Key No. 5 - Marked 1, 2, 3.
26	304-121	1	Resistor, Voltage Regulator - Parts Key Nos. 2 & 4.
	304-251	1	Spec. A - 10 Ohm, 10 Watt.
			Begin Spec. B - 30 Ohm, 5 Watt.
27	304A256	3	Resistor, Charge - 6 Ohm, 75 Watt - Parts Key Nos. 2 & 4.
28	309-10	1	Switch, Ignition Cut-Off - Low Oil Pressure (Optional).
29	308-37	1	Switch, Toggle - Low Oil Pressure Switch By-Pass (Optional).
30	301C853	1	Cover, Control Box - Parts Key Nos. 2 & 4.
31	338B123	1	Cable, Stop & Choke Circuits - Parts Key Nos. 2 & 4.
	338B145	1	For Right Hand Control Box Mounting (Standard).
	308A94	1	For Left Hand Control Box Mounting (Optional).
32	416A77	2	Switch, Remote Control Start-Stop - Parts Key Nos. 2 & 4.
33	416A1	1	Cable, Battery - Parts Key Nos. 2, 4, 5.
34	301A974	1	Cable, Battery Jumper - Parts Key Nos. 2 & 4.
	303-84	1	Bracket, Start-Stop Switch Mounting Parts Key Nos. 2, 4, 5.
			Rheostat, Voltage Control - Parts Key No. 5.

FIG. 20 - CONTROL PARTS GROUP (Cont.)

PARTS LIST

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
1	302-335 302-5	AS REQ.	Anmeter. 0-20 Amperes. 0-30 Amperes. 0-35 Amperes. (use 302-7) 0-50 Amperes.
2	302-40 302-41	AS REQ.	Voltmeter. 0-150 Volts. 0-300 Volts.
3	302-212 302-102	1 1	Meter, Running Time - 115 Volts - Use with resistor for higher voltages. 60 Cycle. 50 Cycle.
4	304P99	1	Resistor - For use with running time meter. For 230 volts. For 460 volts.
5	304P125 308-12	1 1	Switch, Selector - Voltmeter. Circuit Breaker. 20 Ampere. 25 Ampere. 30 Ampere.
6	320P18 320P19 320P58 320P20 320P52	AS REQ.	35 Ampere. 50 Ampere.
7	323P184	AS REQ.	Receptacle, Duplex - 2 wire plus ground - 15 Amp.
8	323-23	AS REQ.	Receptacle - 2 Wire Twistlock - 20 Amp.
9	323-11	AS REQ.	Receptacle - 3 Wire Twistlock - 20 Amp.
10	323-91	AS REQ.	Receptacle - 4 Wire Twistlock - 20 Amp.

REF. NO.	PART NO.	QUANT. USED	DESCRIPTION
STARTING MOTOR & CHARGING GENERATOR GROUP (NOT ILLUSTRATED)			
1	191P86	1	†Motor, Starting - 6 Volt - Autolite #MZ-4178
2	191A116	1	Jumper, Starter Connection - Copper.
3	191P105	1	†† Generator, Charge - Includes Regulator - 6 Volt - Delco #1100513
4	191C90	1	Guard, Belt - Charge Generator.
5	511P37	1	Belt, Generator Drive.
6	512P25	1	Pulley, Generator.
7	515A7	1	Key, Generator Pulley.
8	191B91	1	Bracket, Generator.
† For service or parts, contact Autolite service.			
†† For service or parts, contact Delco service.			

Onan PARTS PETE says...



GENUINE ONAN PARTS will simplify your maintenance and service and will insure your Onan Plant operating at its peak efficiency.

See the dealer from whom you purchased your plant or go to an Onan Authorized Service Station or Parts Center. They will see that you receive the correct parts and will provide any service information you may need.

If you are operating your plant at a point where it is not convenient to secure very good delivery on parts, or your plant is receiving hard continuous service, your best insurance is to have a complete over-haul kit on hand.

Many times an added accessory will enable you to put your plant to greater or more complete service. Batteries, switches, controls, dollies, or trailers are available for many Onan Plants.

Remember that the Onan Line is complete in capacity range of 500 to 50,000 watts in gasoline; 3,000 and 5,000 watts in diesel; 1500 to 75,000 watts in separate generators, and 3,000 to 10,000 watts in tractor generators. These units are available in standard voltages of AC, DC, and battery charging current.

Onan Generating Equipment is designed for primary, portable, mobile or standby service. Where there is no other source of electricity, it supplies primary power. It supplies portable or mobile power for fire and police departments, construction or radio use. For hospitals, hatcheries, industries or homes there is no finer source of standby power. See your dealer for any of these needs.